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10/550,365	06/14/2006	Hilde Hardtdegen	23390	7978
535 7590 06/11/2008 K.F. ROSS P.C.			EXAMINER	
5683 RIVERDALE AVENUE SUITE 203 BOX 900 BRONX, NY 10471-0900			SMITH, FRANCIS P	
			ART UNIT	PAPER NUMBER
			1792	
			MAIL DATE	DELIVERY MODE
			06/11/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/550,365 HARDTDEGEN ET AL. Office Action Summary Examiner Art Unit Francis P. Smith 1792 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 14 June 2006. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) 1-14 and 17 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 15 and 16 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 20 September 2005 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) ☑ Notice of References Cited (PTO-882) 4.] □ Interview Summary (PTO-413)
2.□ □ Notice of Draftsperson's Patient Drawing Review (PTO-946) 9.2 □ Interview Summary (PTO-413)
3.□ □ Notice of Draftsperson's Patient Drawing Review (PTO-946) 9.3 □ Notice of Interview Summary (PTO-413)
4. □ Interview Summary (PTO-413)
4. □ Interview Summary (PTO-413)
5.□ Paper Not(s) Middle Date 9.20/22/02.
5.□ Notice of Interview Summary (PTO-413)
6.□ Other: □ Notice of Interview Summary (PTO-413)
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DETAILED ACTION

Election/Restrictions

 Applicant's election without traverse of Group II, drawn to claims 15 and 16, in the reply filed on May 29, 2008 is acknowledged.

Claims 1-14 and 17 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Information Disclosure Statement

2. The information disclosure statement filed September 20, 2005 fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 because DE 10118130 lacks an English translation. It has been placed in the application file, but the information referred to therein has not been considered as to the merits. Applicant is advised that the date of any re-submission of any item of information contained in this information disclosure statement or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609.05(a).

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Specification

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

TITLE OF THE INVENTION.

BACKGROUND OF THE INVENTION.

- (1) Field of the Invention.
- (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.

BRIEF SUMMARY OF THE INVENTION.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).

DETAILED DESCRIPTION OF THE INVENTION.

CLAIM OR CLAIMS (commencing on a separate sheet).

ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).

Drawings

4. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because the handwritten information of Fig 4a, 4b, is not clearly presented. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

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6.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 16 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite

for failing to particularly point out and distinctly claim the subject matter which applicant

regards as the invention. Claim 16 recites the limitation "the supply vessels". There is

insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claim 15 is rejected under 35 U.S.C. 102(b) as being anticipated by Shibata et al. (EP 1207215 A2).

Shibata teaches a method and apparatus for fabricating a III-V nitride film by generating a MOCVD reaction between a III raw material gas and a V raw material gas. Specifically, Shibata teaches an MOCVD apparatus for gas phase deposition with at least two gas inlets 15-17 whereby the reaction gasses are introduced via separate guiding tubes 18 and 19 (i.e. 4 and 5 of the instant application), which provides means for flexibly introducing gases in to the apparatus (fig. 2, 100241).

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Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 10. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - Resolving the level of ordinary skill in the pertinent art.
 - Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 11. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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 Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shibata et al. (EP 1207215 A2) as applied to claim 15 above, and further in view of Saito et al. (US 6,218,212 B1).

Shibata teaches separate gas inlets 15-17 as seen in fig. 2, which are necessarily connected to supply vessels via gas collecting lines. Shibata does not disclose the use of at least two valves.

Saito teaches an apparatus for growing a mixed compound semiconductor layer that includes a variety of inlet ports/nozzles (see abstract). The inlet ports are connected to the bubblers via supply lines whereby each bubbler comprises a mass flow controller and plural valves for controlling a flow rate of source gas (col. 5, lines 19-55; fig. 4a-4b). Therefore, one of ordinary skill in the art at the time of the invention would have utilized Saito's plurality of valve regulated collecting lines in Shibata's apparatus in order to control the flow rate of source gasses.

Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 6,960,537 teaches the use of a plurality of valves and collecting lines.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Francis P. Smith whose telephone number is (571) 270-3717. The examiner can normally be reached on Monday through Thursday 7:00 AM-5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mikhail Kornakov can be reached on (571) 272-1303. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

FPS
/Michael Kornakov/
Supervisory Patent Examiner, Art Unit 1792